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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,260	12/11/2003	Colin Whitby-Strevens	APPLE.049A	9784
65201	7590	05/01/2008	EXAMINER	
GAZDZINSKI & ASSOCIATES, P.C. 11440 WEST BERNARDO COURT SUITE 375 SAN DIEGO, CA 92127			ABRAHAM, ESAW T	
		ART UNIT	PAPER NUMBER	
		2112		
		MAIL DATE		DELIVERY MODE
		05/01/2008		PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/735,260	WHITBY-STREVENS ET AL.
	Examiner	Art Unit
	ESAW T. ABRAHAM	2112

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 22 January 2008.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 57-100 is/are pending in the application.
- 4a) Of the above claim(s) 1-56 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 57-100 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____. | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION
RESPONSE TO APPLICANT'S REMARKS

Applicant's election without traverse of Group I (claims 57-81) and new added claims (claims 82-100) are acknowledged. However, upon further consideration, a new Restriction/requirement is made against to the previous claim 74-81 as a Group II and against new added claims 82-100 as a Group III since the claims are distinct from the other. NOTE: Applicant is advised to elect one of the groups instead of adding more claims and complicate the election.

Election / Restriction

1. Restriction to one of the following invention is required under 35 U.S.C. 121

Group I. Claims 57-73 drawn to:

A method of reliably transmitting data across a communication medium comprising: encoding a symbol comprising a plurality of bits, wherein a most significant bit and a least significant bit of said symbol are adapted to indicate a symbol type; and transmitting the symbol across the communication medium; wherein said encoding increases the reliability of said transmitting data (as in claim 57) or A computerized apparatus for transmitting data across a communication medium, said apparatus comprising: a first module adapted to encode a symbol comprising a plurality of bits, wherein the first module is adapted to indicate a symbol type by setting or resetting both a most significant bit and a least significant bit of said symbol; and a second module adapted to transmit

the encoded symbol across the communication medium (as in claim 68) classified in 714/747.

Group II. Claims 74-81 drawn to:

A method of operating a computerized device so as to provide protection against errors, comprising: encoding a plurality of symbols from a stream of data, wherein a first bit and a second bit associated with said encoded symbols are each independently useful for determining a symbol type; and transmitting the symbols including the associated first and second bits across the communication medium; wherein said first and second bits are disposed so that a single byte error occurring during said transmitting will not adversely affect both of said first and second bits (as in claim 74) and a method of transmitting data, comprising: creating a second plurality of symbols from a first plurality of symbols, wherein the most significant bit and the least significant bit of each symbol of the first plurality are adapted to indicate a symbol type; and transmitting the second plurality of symbols across the communication medium (as in claim 78) and furthermore wherein a single byte error does not affect both said most and least significant bits, thereby preventing said single byte error from creating a type error condition (as in dependent claim 79 "linked to claim 78") classified in 714/758.

Group III. Claims 82-100 drawn to:

A method of reliably transmitting data across a communication medium comprising: creating a first stream of symbols such that the most significant bit and least significant bit of each symbol are adapted to indicate a symbol type; creating a second stream of symbols from said first stream, wherein the bit length of each symbol in the second stream is equal to a bus width; and transmitting said second stream of symbols across the communication medium (as in claim 82) and computer readable apparatus having a storage medium, said storage medium comprising a computer program having a plurality of instructions which, when executed by a computer: create a symbol, wherein the most significant bit and the least significant bit of the symbol are each adapted to indicate a symbol type; create a set of bytes comprising each bit from said symbol, and transmit the set of bytes over a transmission medium (claims 82 and 92) classified in 714/752.

The invention are distinct, each from the other because of the following reasons:

Invention Group I, Group II and Group III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they don't overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable,

In the instance case, **invention Group I** has separate utility separate utility such as encoding a symbol comprising a plurality of bits, wherein a most

significant bit and a least significant bit of said symbol are adapted to indicate a symbol type; and transmitting the symbol across the communication medium;
wherein said encoding increases the reliability of said transmitting data.

In the instant case, the **invention of Group II** has separate utility such as protection against errors, comprising: encoding a plurality of symbols from a stream of data, wherein a first bit and a second bit associated with said encoded symbols are each independently useful for determining a symbol type; and transmitting the symbols including the associated first and second bits across the communication medium; wherein said first and second bits are disposed so that a single byte error occurring during said transmitting will not adversely affect both of said first and second bits.

In the instance case, **invention Group III** has separate utility separate utility such creating a first stream of symbols such that the most significant bit and least significant bit of each symbol are adapted to indicate a symbol type; creating a second stream of symbols from said first stream, wherein the bit length of each symbol in the second stream is equal to a bus width; and transmitting said second stream of symbols across the communication medium.

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claims(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP 821.04(a). Applicant

is advised that if any claim present in a continuation or divisional application is anticipated by, or includes the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or non-statutory double patenting rejections over the claims of the instant application.

Because these inventions are distinct for the reason given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reason given above and the reasons given above and search required for Group II is not for Group I, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reason given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above there would be a serious burden on the examiner if restriction is not required because the invention require a different field of search (see MPEP 808.02), restriction of examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the specification. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Esaw T. Abraham whose telephone number is (571) 272-3812. The examiner can normally be reached on M-F 8am-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EA

/Esaw T Abraham/
Examiner, Art Unit 2112
04/28/08

Application Number 	Application/Control No.	Applicant(s)/Patent under Reexamination
	10/735,260 Examiner ESAW T. ABRAHAM	WHITBY-STREVENS ET AL. Art Unit 2112